

CLEAN VERSION OF AMENDMENTS

In the claims:

The following is a clean version of the claims added by this preliminary amendment:

Please add the following claims:

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63. (new) A system for training persons to perform a surgical procedure using a surgical instrument that is inserted and manipulated through a small incision in a patient, said system comprising:

a housing with an opening;
an implement for simulating said surgical instrument that is situated in said opening in said housing and manipulated axially and rotationally relative to said housing;
a movement guide and sensor assembly for monitoring the position of said implement relative to said housing, said movement guide and sensor assembly having:

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a) a cable;
b) a guide rail proximate to said cable;
c) a framed assembly for restricting the linear motion of said implement as it is moved relative to said housing to a predetermined axis;
d) a rotation sensor affixed to said implement for monitoring the axial rotation of said implement relative to said housing;
e) a position sensor for monitoring the axial position of said framed assembly; and

f) a servo motor applying a torque to said cable, which imparts a resistive force to linear motion of said implement;

a display; and

a processor for interpreting the data from said rotation sensor and said position sensor to determine the location and occurrence of force feedback to said implement, said force feedback created by said processor controlling said servo motor in response to said sensed applied force, said processor also controlling a visual simulation for said display.